

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number
WO 2005/093047 A2

- (51) International Patent Classification⁷: C12N 5/06 (74) Agent: SARPI, Maurizio; Studio Ferrario, Via Collina, 36, I-00187 Roma (IT).
- (21) International Application Number: PCT/IB2005/000752 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 23 March 2005 (23.03.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/555,815 24 March 2004 (24.03.2004) US (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicants (for all designated States except US): UNIVERSITE DE GENEVE [CH/CH]; 24, rue du Général-Dufour, CH-1211 Genève 4 (CH). UNIVERSITY ZURICH [CH/CH]; Raemistrasse, 71, CH-8006 Zurich (CH). EIDGENOSSISCHE TECHNISCHE HOCHSCHULE ZUERICH [CH/CH]; Raemistrasse, 101, CH-8092 Zuerich (CH).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): JACONI, Marisa, E., E. [CH/CH]; Rue Daubin, 5, CH1203 Geneva (CH). ZAMMARETTI-SCHAER, Prisca [CH/CH]; Burgdorfstrasse, 32A, CH-3510 Konolfingen (CH).
- Published:**
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: 3D-CARDIAC TISSUE ENGINEERING FOR THE CELL THERAPY OF HEART FAILURE

(57) Abstract: A pharmaceutical composition comprising biodegradable gel-based matrix, at least one active agent and stem cells able to differentiate into cardiac tissue under the form of a patch, for the treatment of heart failure due to myocardial infarction is disclosed.

WO 2005/093047 A2